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Substitute for form 1449 A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,698

Filing Date : 02/08/1999

First Named Inventor: Zorba

Group Art Unit: ~~na~~ 2129

Examiner Name: ~~na~~ MAI T. TRAN

Attorney Docket Number: 05222.00151



(Use as many sheets as necessary)

Sheet 1 of 1

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
mtt		US-4,622,013	11/11/1986	Cherchio	
		US-4,874,784	10/17/1988	Glancey	
		US-4,981,766	01/02/1990	Benn, et al.	
mtt		US-4,931,950	06/05/1990	Isle, et al.	
mtt		US-4,964,077	10/16/1990	Eisen, et al.	
mtt		US-4,977,529	12/11/1990	Gregg, et al.	
mtt		US-5,002,491	03/26/1991	Abrahamson, et al.	
mtt		US-5,170,464	12/08/1992	Hayes, et al.	
mtt		US-5,189,402	02/23/1993	Naimark, et al.	
mtt		US-5,208,745	05/04/1993	Quentin, et al.	
mtt		US-5,208,898	05/04/1993	Funabashi, et al.	
mtt		US-5,239,617	08/24/1993	Gardner, et al.	
mtt		US-5,259,766	11/09/1993	Sack et al.	
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mtt		US-5,311,422	05/10/1994	Loftin, et al.	
mtt		US-5,317,688	05/31/1994	Watson, et al.	
mtt		US-5,326,270	07/05/1994	Ostby, et al.	
mtt		US-5,359,701	10/25/1994	Chiang, et al.	
mtt		US-5,372,507	12/13/1994	Goleh	

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FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 0 689 132 A2	12/27/95	Laffra		
		EP 0 710 942 A2	05/08/96	Siefert		
		EP 0 710 942 A2	05/08/96	Siefert		
		EP 0 798 655 A2	10/01/97	Jervis, et al.		
		WO 00/04478	01/27/00	Jenssen		
		WO 97/44766	11/27/97	Cook		
		WO 98/03953	01/29/98	Simmons		
		WO 98/25251	06/11/98	Ho		
		WO 98/32109	07/23/98	De Lange		

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Examiner Signature	MAI T. TRAN	Date Considered	12/20/05
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Group Art Unit: ~~2129~~

Examiner Name: ~~MAI T. TRAN~~

Attorney Docket Number: 05222.00151

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Sheet 2 of 14

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop-IWALT, pp.143-144</del>	
<u>mtt</u>		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		<del>"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/59298.html</del>	
		<del>The Virtual Classroom: Great Expectations: Delivering Graduate Education by Computer: A Success Story, 1996.</del>	
		<del>"A Special Section – Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994</del>	
		<del>"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994</del>	
		<del>"DDD—A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27</del>	
		<del>"Automated Training of Legal Reasoning" at http://www.bileta.ac.uk/94papers/muntjew.html</del>	
		<del>"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998</del>	
		<del>"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp.341-46, Dec. 1997</del>	
		<del>"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5</del>	

Examiner Signature	<u>MAI T. TRAN</u>	Date Considered	<u>12/20/05</u>
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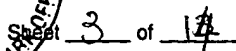
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Attorney Docket Number: 05222.00151

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Application Number : 09/868,698

Filing Date: 02/08/1999

First Named Inventor: Zorba

Group Art Unit: ~~n/a~~ 2829

Examiner Name: ~~n/a~~ MAI T. TRAN

Attorney Docket Number: 05222.00151

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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		"Bridging the Virtual and the Physical: The InterGim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence In Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
		"KBLPS Overview" at <a href="http://www.cgl.com/CGIWEB/KBLPS/overindex4.html">www.cgl.com/CGIWEB/KBLPS/overindex4.html</a>	
		"Smartlaw: adapting classic expert system techniques for the legal research domain". ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual." Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rcl57.html">http://www.centurionsys.com/rcl57.html</a> , Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a>	
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

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Sheet 5 of 14

**Application Number : 09/868,698**

**Filing Date: 02/08/1999**

**First Named Inventor:** Zorba

Group Art Unit: ~~n/a~~ 2/29 - JAN

Examiner Name: ~~wa~~ MAI T. TR#  
Attorney Docket Number: 05222.00151

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No.¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code² (if known)			
NTE		US-5,727,950	03/17/1998	Cook, et al.	
NTE		US- 5,745,652	04/28/1998	Bigus	
NTE		US- 5,772,446	06/30/1998	Rosen	
NTE		US- 5,779,468	07/14/1998	Ho, et al.	
NTE		US- 5,788,508	08/04/1998	Lee, et al.	
NTE		US- 5,791,907	08/11/1998	Ramshaw, et al.	
NTE		US- 5,799,151	08/25/1998	Hoffer	
NTE		US- 5,799,292	08/25/1998	Hekmatpour	
NTE		US- 5,806,056	09/08/1998	Hekmatpour	
NTE		US- 5,810,747	09/22/1998	Budney, et al.	
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NTE		US- 5,823,781	10/20/1998	Hitchcock, et al.	
NTE		US- 5,823,788	10/20/1998	Lemelson, et al.	
NTE		US- 5,835,683	11/10/1998	Corella, et al.	
NTE		US- 5,868,575	02/09/1999	Kuczewski	
NTE		US- 5,870,768	02/09/1999	Hekmatpour	
NTE		US- 5,875,437	02/23/1999	Atkins	
NTE		US- 5,889,845	03/30/1999	Staples, et al.	
NTE		US- 5,893,123	04/06/1999	Tuinenga	
NTE		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

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Application Number : 09/868,698

Filing Date: 02/08/1999

First Named Inventor: Zorba

Group Art Unit: *2129*Examiner Name: *MAI T. TRAN*

Attorney Docket Number: 05222.00151

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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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		"Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hot/mcarthur/Papers/aied.html">http://www.rand.org/hot/mcarthur/Papers/aied.html</a>	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://adviseam.lrdc.pitt.edu/its-arch/papers/tam.html">http://adviseam.lrdc.pitt.edu/its-arch/papers/tam.html</a>	
		"Brainmaker" at <a href="http://www.nplsc.on.ca/~echoscan/28-04.htm">www.nplsc.on.ca/~echoscan/28-04.htm</a>	
		"News for ESAP" at <a href="http://www.hops.wharton.upenn.edu/~esap/news.html">www.hops.wharton.upenn.edu/~esap/news.html</a>	
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
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		"Microworlds and Simuworlods: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 38-49	
		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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First Named Inventor: Zorba

Group Art Unit: ~~na~~ 2j29

Examiner Name: ~~n/a~~ MAI T. TRU

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WUE		US-5,974,446	10/28/1999	Sonnenschein, et al.	
WUE		US- 5,987,443	11/16/1999	Nichols, et al.	
WUE		US- 6,003,021	12/14/1999	Zadik, et al.	
WUE		US- 6,015,348	01/8/2000	Lambright, et al.	
WUE		US- 6,016,486	01/18/2000	Nichols	
WUE		US- 6,018,730	01/25/2000	Nichols, et al.	
WUE		US- 6,018,731	01/25/2000	Bertrand, et al.	
WUE		US- 6,018,732	01/25/2000	Bertrand, et al.	
WUE		US- 6,023,691	02/08/2000	Bertrand et al.	
WUE		US- 6,023,692	02/08/2000	Nichols	
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WUE		US- 6,029,156	02/22/2000	Lannert, et al.	
WUE		US- 6,029,158	02/22/2000	Bertrand, et al.	
WUE		US- 6,029,159	02/22/2000	Zorba, et al.	
WUE		US- 6,032,141	02/29/2000	O'Connor, et al.	
WUE		US- 6,064,998	05/16/2000	Zabloudil, et al.	
WUE		US- 6,067,537	05/23/2000	O'Connor, et al.	
WUE		US- 6,067,538	05/23/2000	Zorba, et al.	
WUE		US- 6,073,127	06/06/2000	Lannert, et al.	
WUE		US- 6,085,184	07/04/2000	Bertrand, et al.	

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Group Art Unit: ~~116~~ 2129Examiner Name: ~~MAI~~ T. TRAN

Attorney Docket Number: 05222.00151

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		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
mtt		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1998, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Management Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
mtt		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

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Group Art Unit: ~~n/a~~ 2129  
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Sheet 8 of 14

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Examiner Signature	MAI T. TRAN	Date Considered	12/20/05
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,698

Filing Date : 02/08/1999

First Named Inventor: Zorba

Group Art Unit: ~~1A~~ 2129

Examiner Name: ~~MAI~~ T. TRAN

Attorney Docket Number: 05222.00151

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		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp-592-94, Dec. 1997	
		"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
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		"Train with Less Pain," Oct.-13, 1997, Informationweek No. 652, pp. 150-154	
		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
		"Intelligent Tutoring Systems: An Overview" at <a href="http://www.intellectbooks.com/authors/awten/its.htm">http://www.intellectbooks.com/authors/awten/its.htm</a>	

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**INFORMATION DISCLOSURE  
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Application Number : 09/868,698

Filing Date: 02/08/1999

First Named Inventor: Zorba

Group Art Unit: *2129*Examiner Name: *MAI T. TRAN*

Attorney Docket Number: 05222.00151

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<i>mtt</i>		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
		<del>Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.</del>	
		<del>"Rule-Based Programming with GP65" at www.mkp.com/books_catalog/O-934613-51-6.asp</del>	
		<del>"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V-2(3), pp. 39-50, Dec. 1997</del>	
		<del>"MUSE U.S. Patents" at www.muser.com/html/patents.html</del>	
		<del>"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997</del>	
		<del>"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 386-393 Dec. 1997</del>	
		<del>"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997</del>	
		<del>"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994</del>	
		<del>"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.</del>	
		<del>"Simulation Technology and Parallelism in Learning Environments" at http://www.to.utwente.nl/prj/mtn/Book/chapter1.htm</del>	

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Signature*MAI T. TRAN*Date  
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Application Number : 09/868,698

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First Named Inventor: Zorba

Group Art Unit: ~~IVA~~ 2129

Examiner Name: ~~HA~~ T. TRAN

Attorney Docket Number: 05222.00151

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		"FinPlan System" at <a href="http://www.rfa.org.ru/FinPlan/">www.rfa.org.ru/FinPlan/</a>	
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		"Computer-Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
		"Teaching with the Internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at <a href="http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html">http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html</a>	
		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 28, No. 3, pp. 22-26	
		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a>	

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Filing Date: 02/08/1999

First Named Inventor: Zorba

Group Art Unit: ~~2129~~

Examiner Name: ~~MAI~~ T. TRAN

Attorney Docket Number: 05222.00151

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		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-86, Dec. 1997	
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		"Automate Your Business Plan" at <a href="http://www.business-plan.com/screen2.html">www.business-plan.com/screen2.html</a>	
		"Kiplinger TaxCut Press Releases" at <a href="http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html">http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html</a>	
		"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/tldlx.html">http://www.intuit.com/turbotax/prodinfo/tldlx.html</a>	
		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1996	
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		"Template Software Workflow Simulator, Chapter 8, June 1998	
		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

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Filing Date : 02/08/1999

First Named Inventor: Zorba

Group Art Unit: ~~01A~~ 2129

Examiner Name: ~~Ma~~ MAI T. TRAN

Attorney Docket Number: 05222.00151

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		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

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